



BLK-PTZJOY3 3-Axis Joystick Controller

INSTRUCTION MANUAL



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product

FCC COMPLIANCE STATEMENT

FCC INFORMATION: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

CE COMPLIANCE STATEMENT

WARNING

THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

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General Descriptions

The BLK-PTZJOY3 is a pan/tilt controller that allows operators to perform the following functions :

- Controls camera functions such as pan, tilt, zoom, and focus.
- Sets and calls camera preset positions
- Activates pre-programmed group presets, tour and group sequences.

The LCD is used to display current status as well as to provide a menu system for setting operational parameters.

Controller is designed for desktop operation; interface connectors are located in the Junctions box outer of the unit.

Features

- Recalls up to 255 cameras from one keyboard.
- Multiple protocol supported in each channel (Pelco D, DRX-502)
- Preset position control.
- Variable manual control speed from 1°/sec to 90°/sec
- Maximum speeds are proportional to zoom ratio.
- Recalls programmed guard tours from each dome camera.
- Recalls Auto-Swing from selected dome camera.
- Built-in Graphic LCD monitor with blue screen.
- Programmable user preferences. (preset, tour, group, etc.).
- User password support.
- Supported DVR protocol (Need to be modified)
- Easy upload programmed data via serial communication port of computer.
- Slave Keyboard support.

Installation

UNPACKING

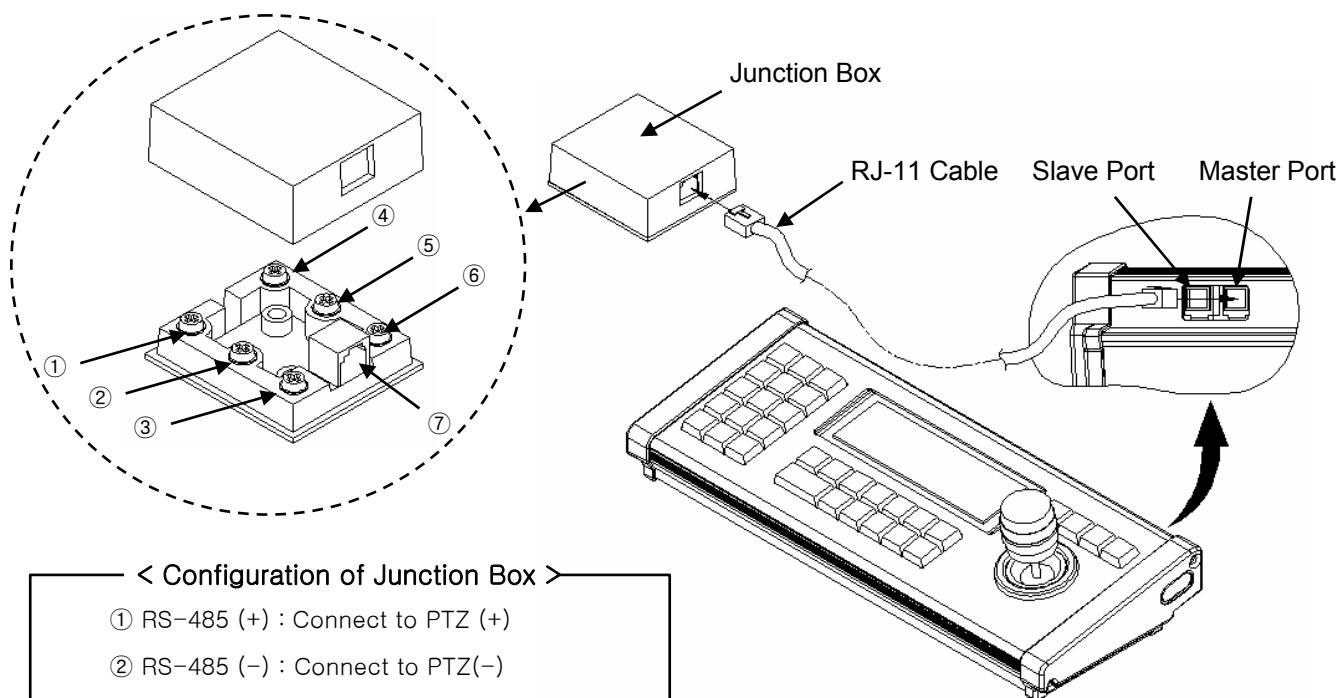
Unpack the equipment and make sure all listed items are included in the box.

Keyboard controller	1
Junction box	2
3m 6p cable RJ-11.....	2
Instruction manual	1

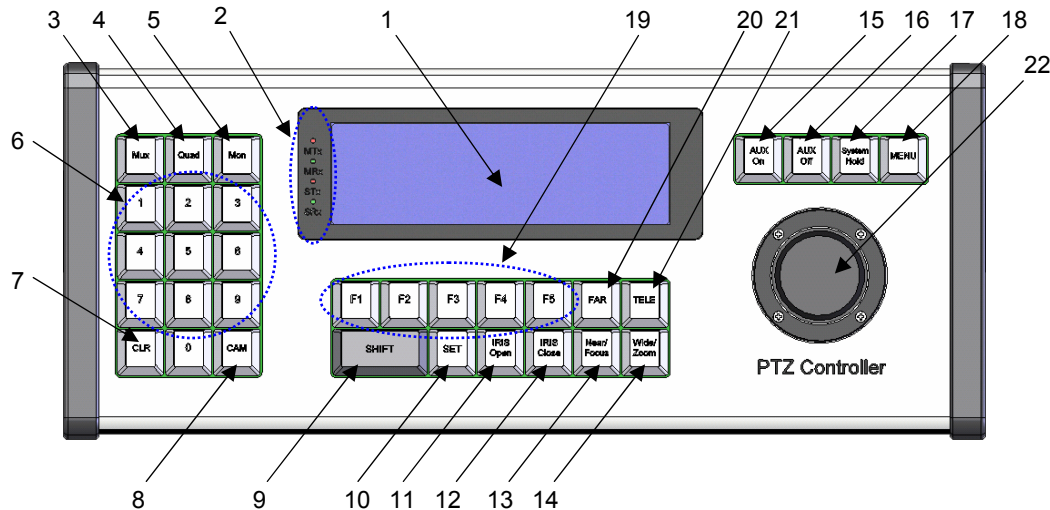
1. CONNECTIONS

There are two connectors on the controller. These connectors are RJ connector for Master and Slave control.

- 1.1 Open the junction box cover and connect the 12VDC power to the junction box number 3 and 6.
(DC 12V, 500mA, Power adaptor is not included in the system box).
- 1.2 Connect 6-pin multi-wired cable between junction-box and keyboard.
- 1.3 Connect PTZ communication wires (RS-485, 2-wires) to the junction box number of 1 and 2.
- 1.4 Turn on the power, then you will get into the starting mode.

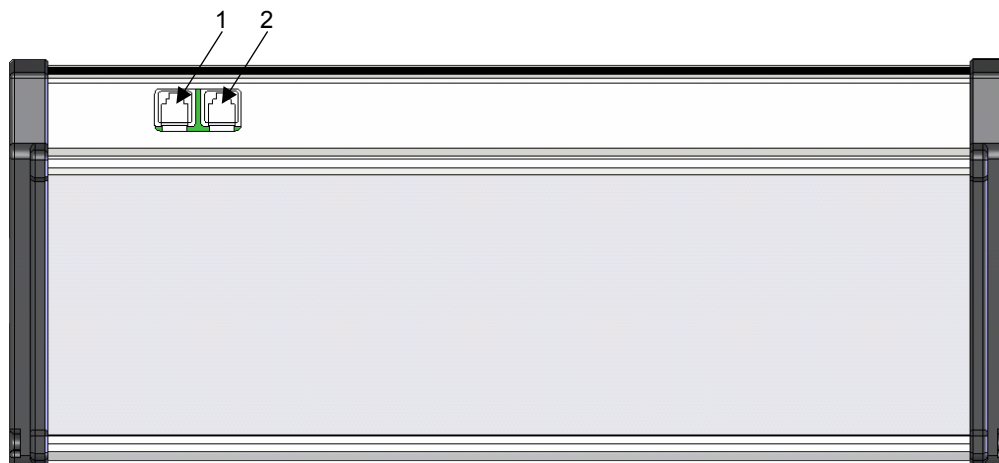


Parts name & functions



1. LCD Display : Displays numeric input, system status, function status, general status, etc.
2. Shows the communication status (Master / Slave)
3. Mon : Select output channel of Matrix Switcher. (TBD)
4. Quad : Select channel of Quad.(TBD)
5. Mux : Select channel of Mux.(TBD)
6. 0~9 :Numeric keypad :
7. CLR : Cancel key .
8. CAM : Select address of Camera, Mux, Quad and Matrix Switcher.
9. SHIFT : Key for special function (Customize).
10. SET : Connected equipment setting and system information setting.
- 11.12. IRIS Open ,12. IRIS Close :Camera Iris control.
13. 20. Near / Far Focus: Camera focus control.
14. 21. Wide / Tele Zoom : Camera zoom control.
15. AUX On : AUX ON of Receiver unit.
16. AUX Off : AUX Off of Receiver unit.
17. System Hold : Used for system hold
18. Menu : Used for Camera (Pan/Tilt) Menu adjustment.
19. F1 ~ F5 : Function Keys (Preset, Group, Tour, Pattern, Scan).
22. Telemetry Joystick – Allows precise control of Pan/Tilt/Zoom & Moving to menu

Parts name & functions



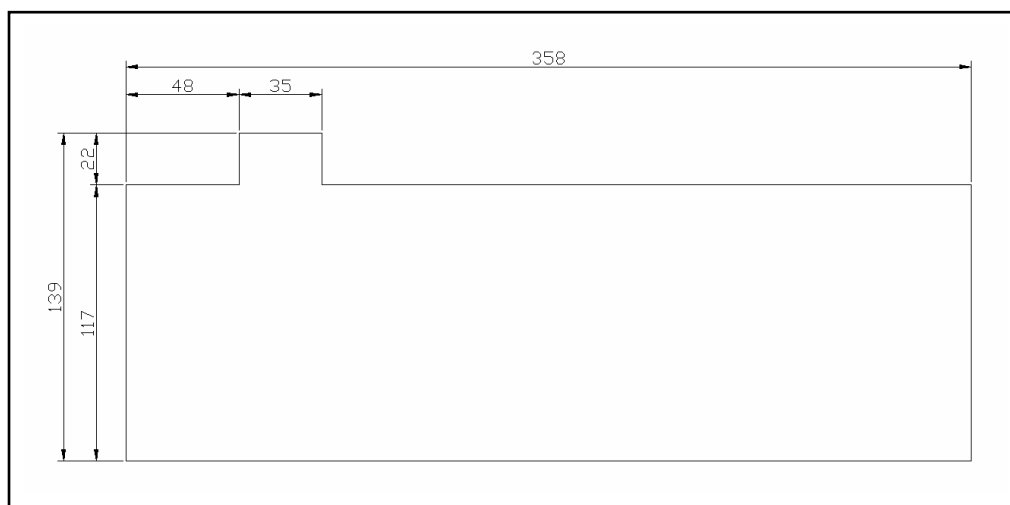
- 1. Slave Port : Connect to Slave Communication Port.
- 2. Master Port : Connect to Master Communication Port

Drawing of Console Desk

BLK-PTZJOY3 is designed to use on the console desk.

When you install the keyboard on the console desk, please make holes as below drawing.

Unit : mm



Display LCD window

(1) Initial display

PROTOCOL	PELCO-D : 2400 BPS					
PTZ ADDR	001					
MON CHAN	001					
PRE	GRO	TOUR	SCAN	PATT	FOCUS	ZOOM

1. C-001 : Shows the current camera No. (Address).
2. M-001 : Displays output channel of Matrix Switcher. (TBD)
3. DRX5 : Shows the selected camera protocol.
4. Func : Displays entered Key.

Accessing to the camera menu:

This function is only for the speed dome camera

Select and control the camera

1) How to select Address Number 1 camera with Pelco-D protocol?



Camera Address

Press CAM button

Move to next item
by using joystick

PROTOCOL	PELCO-D : 2400 BPS					
PTZ ADDR	001					
MON CHAN	001					
PRE	GRO	TOUR	SCAN	PATT	FOCUS	ZOOM

2) How to select Address Number 2 camera with DRX-502 protocol?



Camera Address

Press CAM button

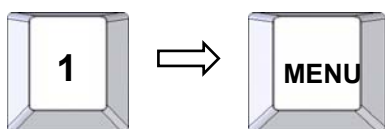
Move to next item
by using joystick

PROTOCOL	DRX502A : 9600 BPS					
PTZ ADDR	002					
MON CHAN	001					
PRE	GRO	TOUR	SWING	AUTO	FOCUS	ZOOM

• Control and Setting of PTZ Camera Functions

1. Setting to the camera functions

① Camera Setting Menu



<Pressing keypad “1” and holding the “MENU” key for approximately 2 seconds>

Camera Address

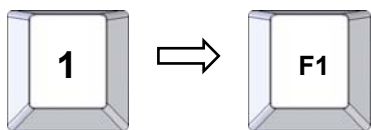
Press MENU button

Each menu page is provided with a highlighted cursor which can be moved around the page using the Up, Down, Left and Right cursor keys with Joystick.

**** Note: Dome camera menu is different according to camera manufacturers.
Please be noted dome camera instruction manual in detail menu explanation.**

2. Accessing to the camera functions

① Preset

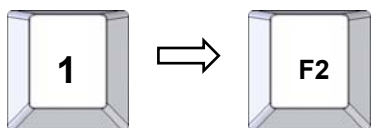


Preset number

PRE KEY

Press the preset number and PRE key (F1) on the keyboard. The Monitor will show you the function name and you are operating now.

① Group



Group number

GRO KEY

Press the preset number and GRO key (F2) on the keyboard. The Monitor will show you the function name and you are operating now.

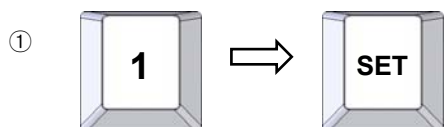
※ To using Preset, Group, Tour, Scan, Auto pan, Focus, Zoom functions of keyboard, user should store these functions on the camera Menu in advance.

This unit supports DRX-502 and Pelco D protocol.

• System Controller (Keyboard) Functions setting

1. System functions setting

PTZ Camera (Rx) and Protocol setting.

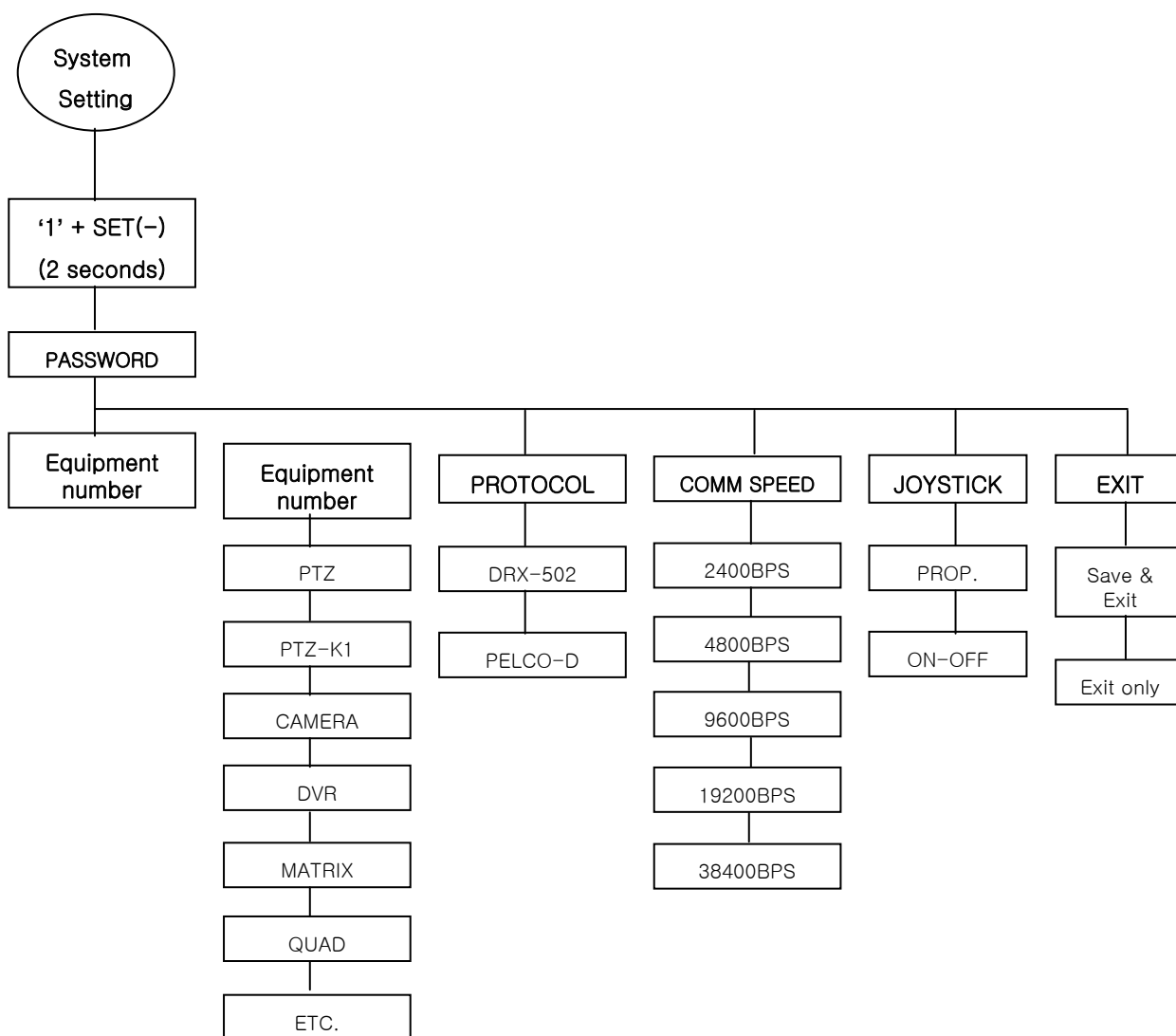


<Pressing keypad “1” and holding the “SET” key for approximately 2 seconds>

② You will be prompted for a password if one has previously been set (factory default is “0000”).

③ Set the information as LCD show you by using joystick.

④ PTZ Configuration is as below.



PROTOCOL	PELCO	-D :	2400 BPS
PTZ ADDR	001		
MON CHAN	001		
PRE GRO TOUR SCAN PATT FOCUS ZOOM			

PASSWORD?

1.	NO.	001
2.	TYPE	PTZ
3.	PROTOCOL	DRX-502
4.	COMM SPEED	2400 BPS

5.	JOYSTICK	PROP
6.	EXIT	

Accessing the system setup menu

Pressing keypad 1 and then holding the SET key for approximately 2 seconds.

It provides access to the system setup menu system.

Note: You will be prompted for a password if one has previously been set (factory default is "0000")

NO. : Select camera address to be changed.

TYPE : Select camera type.

PROTOCOL : Protocol select.

COMM SPEED : Select communication speed

** DRX-502 : 9600 bps

** Pelco D : 2400 bps

JOYSITCK : Select the way of Joystick control.

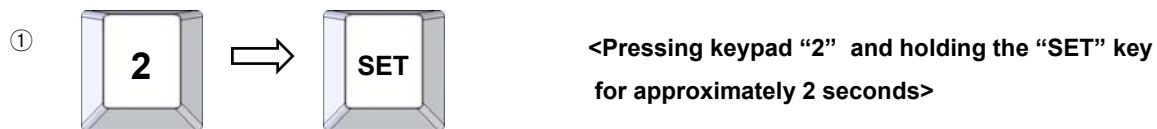
PROP : Proportional speed control.

ON-OFF : Fixed speed control.

EXIT

2.Hidden command

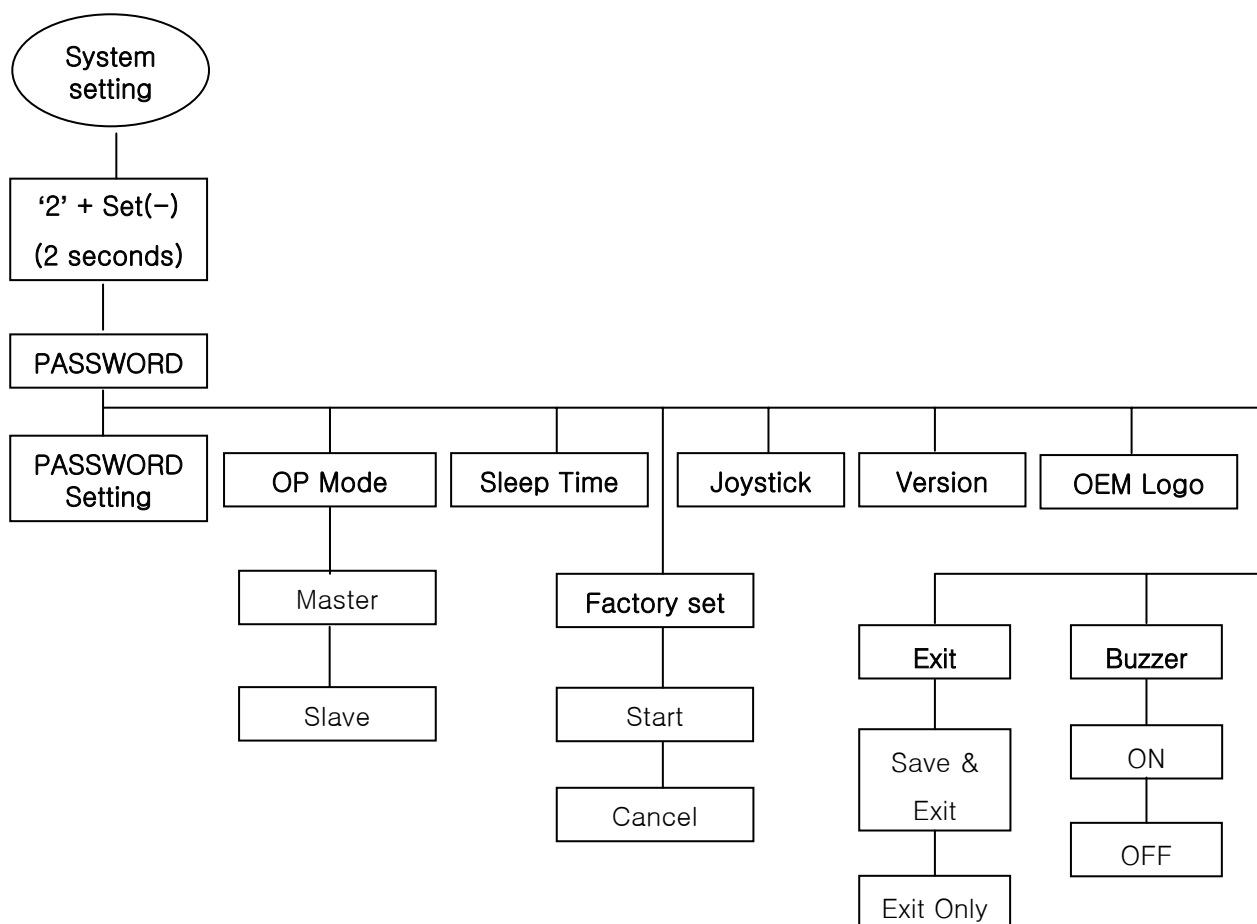
This hidden menu performs to operator to change PASSWORD and others.



② You will be prompted for a password if one has previously been set (factory default is “0000”).

③ Set the information as LCD show you by using joystick.

④ PTZ Configuration is as below.



Specifications

Model	BLK-PTZJOY3
Keyboard Communication	Pan/Tilt interface: RS-485
	DVR interface: RS-485
	Pan/Tilt operating distance: 4000 ft (1029m) on 24 AWG wire
	Protocol: Multiple (Wonwoo, etc.) (Baud rate selectable)
Connector Type Data	RJ-11 6-pin modular
Keyboard Keypad	PC Keyboard button
	Numeric keypad and camera function keys.
Joystick	Three-axis, vector solving, with twisting, return-to-center head
Input Voltage	12 VDC \pm 2V
Power Consumption	Max.150 mA
LCD Display	Graphic display 240 x 64 dots. Display 4-line x 30-character alphanumeric LCD display with blue backlight.
Operating Temperature	32°F to 113°F (0°C to 45°C)
Humidity	10% - 70% non condensing
Dimensions & Weight	14.8" (W) x 4.41" (H) x 5.71" (D), 2.9 lbs (376mm (W) x 112mm (H) x 145mm (D), 1.3Kg)

Dimensions

